INDEX

JOURNAL OF ANALYTICAL CHEMISTRY OF THE USSR

Volume 15, 1960

AUTHOR INDEX

Volume 15, Numbers 1-6, 1960

Abdulaev, A. A. - 801
Ablov, A. V. - 121
Ablov, A. V. - 841
Afanas'eva, L. L. - 645
Akshinskaya, N. V. - 485
Aladzhalova, N. A. - 271
Aleksandrovich, K. V. - 585
Alekseeva, V. M. - 27
Alimarin, I. P. 31
Antipova-Karataeva, I. I. - 685

Babenyshev, V. M. - 649
Babko, A. K. - 671
Bagreev, V. V. - 511
Baiulescu, G. - 579
Balashov, Yu. A. - 511
Bankovskii, Yu. A. - 1
Baranov, V. I. - 183
Bashmakova, V. S. - 187
Batalin, A. Kh. - 583
Batyr, D. G. - 121
Batyr, D. G. - 841
Belyaev, Yu. I. - 629
Belyaev, Yu. I. - 813
Berezin, I. A. - 585
Bezuglyi, V. D. - 263
Biryuk, E. A. - 349
Bitovt, Z. A. - 227
Bitovt, Z. A. - 855
Blank, A. B. - 409
Blank, A. B. - 693
Bochkova, V. M. - 699
Bol'shakova, L. I. - 599
Bondarenko, L. S. - 713
Borisov, A. I. - 259
Bozhevol'nov, E. A. - 45
Bukhtiarov, V. E. - 275
Bulgakova, A. M. - 675
Bulgakova, A. M. - 693
Busev, A. I. - 51
Busev, A. I. - 217
Busev, A. I. - 333
Busev, A. I. - 521
Busev, A. I. - 655
Busev, A. I. - 797
Butylkin, L. P. - 535

Ceaușescu, D. - 739
Chang Fan - 521
Chang Wen-ts'ing - 683
Chebotarev, O. V. - 587
Ch'êng Yüan-p'an - 415
Chentsova, N. I. - 545
Ch'ên Yu-wei - 183
Ch'ên Yu-wei - 319
Cherkesov, A. I. - 743
Chernikhov, Yu. A. - 517
Chesnokov, O. F. - 413
Chubukova, T. M. - 807
Chudakov, M. I. - 397
Chugreeva, N. V. - 451
Chupakhin, M. S. - 175
Cristescu, C. - 579

Daiev, Khr. - 507
Deshmukh, G. S. - 687
Dianov, M. P. - 131
Dmitrieva, V. N. - 263
Drozdov, N. S. - 285
Dubnikov, L. M. - 587
Duderova, E. P. - 209
Dunaevskaya, K. A. - 753
Dyatlova, N. M. - 479
Dziomko, V. M. - 753

Efimov, I. P. - 859
Egorov, V. N. - 23
Elinson, S. V. - 75
Ershov, B. P. - 277
Eskevich, V. F. - 87

Fabrikova, E. A. - 489
Farafonov, M. M. - 629
Fedorova, G. P. - 329
Filippova, N. V. - 231
Filippovich, Yu. B. - 427
Flis, I. E. - 241
Frumina, N. S. - 765

Gel'man, N. É. - 105
Gel'man, N. É. - 253
Gel'man, N. É. - 391
Gel'man, N. É. - 557
Gel'man, N. É. - 719
Georgievskaya, G. D. - 397
Ginzburg, V. I. - 405
Gokhstein, Ya. P. - 619
Golubtsova, Z. G. - 541
Grekov, A. P. - 837
Grigorenko, I. N. - 125
Grigor'ev, V. F. - 209
Gusev, S. I. - 205
Gusev, S. I. - 855

Ievin'sh, A. F. - 1
Ioffe, B. V. - 259
Ivanov, N. P. - 357
Ivanov, V. M. - 859
Ivanov, V. S. - 281
Izmailov, N. A. - 263

Kalugin, A. A. - 847
Karabash, A. G. - 713
Karkuzaki, L. I. - 771
Kazakov, V. Ya. - 791
Khaidarov, A. A. - 801
Klimova, V. A. - 387
Klimova, V. A. - 831
Knyazeva, E. M. - 71
Kolchin, I. K. - 179
Kolchin, I. K. - 565
Kolpakova, I. D. - 479
Komar' N. P. - 301
Komarova, L. A. - 87
Kononenko, L. I. - 63
Korenman, I. M. - 37
Korneev, V. A. - 193
Korolev, V. V. - 473
Korolev, V. V. - 783
Korotun, M. V. - 137
Korovin, Yu. I. - 707
Korshun, M.O. - 105
Korshun, M. O. - 253
Korshun, M. O. - 391
Korshun, M. O. - 719
Koshkin, N. V. - 165
Kosin'skii, M. - 267
Kotlyar, E. E. - 235
Kourzhim, V. - 313
Kozlova, A. B. - 517
Kozlovskii, M. T. - 611
Kreimer, S. E. - 535
Kremer, V. A. - 421
Kreshkov, A. P. - 437
Kreshkov, A. P. - 727
Krivonos, L. A. - 813
Kruchkova, E. S. - 19
Krylov, V. P. - 285
Kulikova, A. E. - 847
Kumov, V. I. - 205
Kumov, V. I. - 855
Kunshin, S. D. - 37
Kuranov, A. A. - 545
Kustas, V. L. - 59
Kutsenko, Yu. I. - 665
Kutyrina, E. G. - 565
Kuznetsov, V. I. - 199
Kuznetsov, V. I. - 287
Kuznetsov, V. I. - 341
Kuznetsov, V. I. - 599
Kuznetsova, E. M. - 485
Kuznetsova, N. M - 641
Kuznetsova, O. M. - 649

Kuznetsova, V. K. - 273
Kuznetsova, Z. M. - 51

Lastovskii, R. P. - 479
Lavrukhina, A. K. - 313
Lazar, C. - 579
Lazareva, L. I. - 699
Lazebnaya, G. V. - 59
Lebedev, N. N. - 179
Lebedev, N. N. - 565
Lebedeva, L. I. - 541
Lerman, M. I. - 423
Liepinya, Z. É. - 1
Li Gyn - 217
Likhosherstova, V. N. - 857
Lizogub, A. P. - 593
Lobanov, E. M. - 801
Lukin, A. M. - 45
Lukin, A. M. - 337
Luk'yanov, V. F. - 71
Luk'yanov, V. F. - 209
Luk'yanov, V. F. - 353
Luk'yanov, V. F. - 517
Luk'yanov, V. F. - 679

Maimind, V. I. - 423
Mairanovskii, G. S. - 133
Makasheva, I. E. - 375
Maslennikov, A. S. - 429
Maslov, I. A. - 375
Mezhiborskaya, Kh. B. - 323
Mikhailenko, Yu. Ya. - 179
Mikhailenko, Yu. Ya. - 565
Mikhailov, V. A. - 605
Mikhailova, Z. K. - 91
Mikhnovskaya, A. A. - 403
Minczewski, E. - 169
Mirnaya, A. P. - 421
Mirzoyan, N. A. - 381
Mishchenko, K. P. - 241
Moiseeva, L. M. - 129
Moiseeva, L. M. - 641
Morachevskii, Yu. V. - 541
Morachevskii, Yu. V. - 749
Morozov, A. A. - 125
Morozov, N. M. - 419
Morozova, G. G. - 713
Mosina, A. S. - 277
Mustafin, I. S. - 19
Mustafin, I. S. - 765

Nazarchuk, T. N. - 235
Nazarenko, I. I. - 860
Nazarenko, V. A. - 349
Neiman, L. A. - 423
Nezhnova, T. I. - 75
Nikol'skaya, L. V. - 341
Nikol'skaya, I.V. - 353
Novikov, A. I. - 851
Novikov, A. P. - 801
Novozhilova, K. I. - 253
Novozhilova, K. I. - 391
Novozhilova, K. I. - 719

Obtemperanskaya, S. I. - 857
Obukhov, A. P. - 375
Odintsov, M. G. - 571
Ohlweiler, O. A. - 827
Olenovich, N. L. - 125
Oncescu, T. - 469
Ostroumov, É. A. - 823
Ovchar, L. A. - 147
Ovchar, L. A. - 305

Palamarchuk, N. A. - 727
Palei, P. N. - 91
Palei, P. N. - 683
Palei, P. N. - 761
Pal'shina, I. I. - 641
Panchenko, G. M. - 485
Panchenko, I. D. - 447
Pavlenko, L. I. - 531
Pavlenko, L. I. - 819
Pavlinova, A. V. - 137
Pavorkov, É. V. - 465
Peizulaev, Sh. I. - 713
Peregud, E. A. - 101
Perepletchikova, E. M. - 847
Peshkova, V. M. - 699
Pesis, A. S. - 227
Petrova, G. S. - 337
Plyushchev, V. E. - 635
Podchainova, V. N. - 791
Podgaiskaya, Z. I. - 441
Poluéktov, N. S. - 63
Poluéktov, N. S. - 147
Poluéktov, N. S. - 305
Poluéktov, N. S. - 501
Polyakov, V. P. - 263
Ponomarev, V. D. - 7
Ponomareva, V. D. - 545
Popova, S. B. - 147
Popova, S. B. - 501
Protsenko, A. E. - 137
Przheval'skii, E. S. - 129
Pylaeva, L. I. - 117

Romanov, M. M. - 801
Rozhdestvenskaya, Z. B. - 155
Rusanov, A. K. - 27
Ryabchikov, D. I. - 91
Ryabchikov, D. I. - 141
Ryabchikov, D. I. - 275
Ryabchikov, D. I. - 860

Sakharov, A. A. - 703
Savvin, S. B. - 199
Savvin, S. B. - 353
Savvin, S. B. - 511
Sedina, L. I. - 679
Senyavin, M. M. - 415
Serdyuk, L. S. - 329
Shamaev, V. I. - 369
Shemyatenkova, V. T. - 727
Shen Han-hsi. - 31
Sheveleva, N. S. - 105
Sheyanova, F. R. - 37
Shishkina, N.N. - 495
Shkodin, A.M. - 771
Shmakova, S.I. - 79
Shvaika, O.P. - 837
Shvedov, V.P. - 13
Sil'nichenko, V. G. - 863
Sinyakova, S. I. - 319
Sklyar, V. T. - 593
Sklyarenko, I. S. - 439
Sklyarenko, I. S. - 807
Sochevanov, V. G. - 79
Sokolova, E. V. - 205
Songina, O. A. - 155
Speranskaya, E. F. - 611
Srivastava, J. P. - 687
Starobinets, G. L. - 465
Stepanenko, É. K. - 101
Stepanov, A. V. - 13
Stepin, B. D. - 635
Stogova, A. V. - 535
Suprunovich, I. B. - 249
Syavtsillo, S. V. - 727

Tananaev, I. V. - 7
Tananaeva, N. A. - 273
Tarasyuk, T. S. - 263
Teitel'baum, B. Ya. - 131
T'eng T'eng - - 13
Terent'ev, A. P. - 267
Terent'ev, A. P. - 857
Tevlina, A. S. - 461
Tevlina, A. S. - 777
Tiptsova, V. G. - 333
Tiptsova, V. G. - 655
Tiptsova, V. G. - 797
Titov, F. S. - 133
Trostyanskaya, E. B. - 777

Trusov, G. N. - 271
Tsetkov, V. F. - 281
Tsitovich, I. K. - 575
Tumanova, T. A. - 241

Udal'tsova, N. I. - 761

Vail', E. I. - 421
Vainshtein, É. E. - 473
Vainshtein, É. E. - 629
Vainshtein, É. E. - 783
Van Nieuwenburg, G. I. - 455
Vernyi, E. A. - 23
Veselago, L. I. - 365
Vitalina, M. D. - 387
Vitkun, R. A. - 305
Vodzinskii, Yu. V. - 847
Vol'f, L. A. - 749
Volkov, I. I. - 823
Volkova, A. I. - 671
Volkova, A. M. - 675
Volkova, G. A. - 79
Volynets, M P. - 511
Voskresenskii, P. - 433
Wang Wen-yun - 557
Zaborenko, K. B. - 231
Zabrodina, K. S. - 831
Zaikov, G. E. - 111
Zaikov, G. E. - 731
Zaikovskii, F. V. - 187
Zarinskii, V. A. - 860
Zhdanova, N. V. - 403
Zholondkovskaya, T. N. - 51
Zil'berman, E. N. - 847
Zin'kov, Z. E. - 117
Zonov, Yu. A. - 735
Zvyagintsev, O. E. - 369
Zwiebel, S. - 469

JOURNAL OF ANALYTICAL CHEMISTRY OF THE USSR

Volume 15, Number 1 January-February, 1960

CONTENTS

	PAGE	RUSS. PAGE
The Analytical Applications of 8-Mercaptoquinoline (Thiooxine) and Its Derivatives. Communication 10. The Relative Stability of Thiooxinates, and the Effect of Complexing Agents on the Interaction of Thiooxine with Cations. Yu.A. Bankovskii, A.F. Ievin'sh, and Z.É. Liepinya	1	4
A Potentiometric Study of the Formation of Mixed Uranyl and Alkali Metal Ferrocyanides. V.D. Ponomarev and L.V. Tananaev	7	10
Separation of Certain Isotopes by the Method of Focusing Ion Exchange. V.P. Shvedov, T'eng T'eng, and A.V. Stepanov	13	16
Hydron II – A New Indicator for the Complexonometric Determination of Calcium in the Presence of Magnesium. L.S. Mustafin and E.S. Kruchkova	19	20
Spectrographic Determination of Aluminum in Uranium. E.A. Vernyi and V.N. Egorov	23	24
Spectrographic Determination of Scandium in Ores. V.M. Alekseeva and A.K. Rusanov	27	27
Quantitative Determination of Scandium by Means of Mandelic Acid. I.P. Alimarin and Shen Han-hsi	31	31
Color and Fluorescent Reactions for Gallium. I.M. Korenman, F.R. Sheyanova, and S.D. Kunshin	37	36
A New Reagent for the Luminescent Determination of Gallium. A.M. Lukin and E.A. Bozhevol'nov	45	43
Separation of Indium and Gallium by Means of Diethyldithiocarbamate. A.I. Busev, T.N. Zholondkovskaya, and Z.M. Kuznetsova	51	49
Determination of Rare Earths Present as Impurities in Samarium and Europium. V.L. Kustas and G.V. Lazebnaya	59	57
Photometric Determination of Germanium by Means of o-Dihydroxychromenols. L.I. Kononenko and N.S. Poluéktov	63	61
Complexonometric Determination of Zirconium. V.F. Luk'yanov and E.M. Knyazeva	71	69
The Solubility of Zirconium Cupferronate. S.V. Elinson and T.I. Nezhnova	75	73
The Effect of Certain Ions on the Precipitation of Uranyl Ferrocyanide from Aqueous Solutions. V.G. Sochevanov, N.V. Shmakova, and G.A. Volkova	79	77
Determination of Uranium by Amperometric Titration. V.F. Eskevich and L.A. Komarova	87	84
Separation of Uranium from Accompanying Metals by Means of Ion-Exchange Chromatography. D.I. Ryabchikov, P.N. Palei, and Z.K. Mikhailova	91	88

CONTENTS (continued)

	PAGE	RUSS. PAGE
New Methods for the Determination of Very Small Amounts of Ozone. E.A. Peregud and É.M. Stepanenko	101	96
Rapid Methods of Microelemental Analysis. Communication 17. Simultaneous Microdetermination of Carbon, Hydrogen, Mercury, and Halogen on One Aliquot of Organic Material. M.O. Korshun, N.S. Sheveleva, and N.É. Gel'man	105	99
Separation of the Lower Aliphatic Alcohols by Means of Paper Chromatography and Their Quantitative Determination. G.E. Zaikov	111	104
Analysis of Mixtures of Aniline, Mono- and Dimethylaniline. Z.E. Zin'kov and L.I. Pylaeva	117	109
A Micromethod for the Determination of Sugars by Means of the Copper Compound of Trihydroxyglutaric Acid. A.V. Ablov and D.G. Batyr	121	112
Brief Communications		
Quantitative Determination of Zinc by Means of Precipitation Chromatography. I.N. Grigorenko, N.L. Olenovich, and A.A. Morozov	125	115
Determination of Small Amounts of Beryllium by Means of β-Diketones. E.S. Przheval'skii and L.M. Moiseeva	129	117
A Photometric Picrate Method for the Determination of Naphthalene in Its Mixtures with Phenol. M.P. Dianov and B.Ya. Teitel'baum	131	119
The Glass Parts of Polarographic Apparatus. S.G. Mairanovskii and F.S. Titov	133	121
Some Improvements in the Microcrystalloscopic Detection of Potassium as the Triple Salt Potassium, Copper, and Lead Nitrite. A.V. Pavlinova, M.V. Korotun, and A.E. Protsenko	137	124
Aleksandr Maksimovich Dymov (On His 60th Birthday)	139	125
Chronicle		
Progress in Analytical Chemistry in China. D.I. Ryabchikov	141	127
A New Reagent for the Determination of Scandium and Vanadium – "Sulfonazo"	143	Back cover

JOURNAL OF ANALYTICAL CHEMISTRY OF THE USSR

Volume 15, Number 2 March - April, 1960

CONTENTS

	PAGE	RUSS. PAGE
A Flame Spectrophotometer Adapted for Spectra Recording and Its Applications. N. S. Poluektov, S. B. Popova, and L. A. Ovchar.	147	131
Polarographic Reduction of Halogenates and Their Oxidation Potentials. Z. B. Rozhdestvenskaya and O. A. Songina.	155	138
The Use of Thiosemicarbazides in Analysis. Communication 3. Titrimetric Determination of Thiosemicarbazides with Mercuric Nitrate. N. V. Koshkin	165	147
Titration in Nonaqueous Media. E. Minczewski	169	151
Introduction of Gases to be Analyzed into the Ion Source of a Mass Spectrometer. M. S. Chupakhin.	175	155
Determination of Cymene Isomers and the Tertiary Butyltoluenes by Their Infrared Absorption Spectra. Yu. Ya. Mikhailenko, N. N. Lebedev, and I. K. Kolchin.	179	159
Isolation of Radiogenic Calcium from Mica for Isotopic Analysis. V. I. Baranov and Chen Yu-wei	183	163
Isolation of Rare Earths from Minerals. F. V. Zaikovskii and V. S. Bashmakova.	187	166
Express Methods for the Spectrographic Analysis of Rare Elements. Communication 1. Analysis of Complex Mixtures of the Rare Earths. V. A. Korneev.	193	170
Photometric Determination of Thorium in Monazites with Arsenazo II Reagent. V. I. Kuznetsov and S. B. Savvin.	199	175
Gravimetric Semimicro Determination of Vanadium by Means of β-Hydroxynaphthylaldoxime. S.I. Gusev, V.I. Kumov, and E.V. Sokolova	205	180
The Analytical Chemistry of Uranium. Communication 1. The Luminescent Method of Determining Uranium. V. F. Grigor'ev, V. F. Luk'yanova, and E. P. Duderova.	209	184
Molybdenometry. Communication 2. Titration of Sexivalent Molybdenum by Means of a Solution of a Trivalent Molybdenum Salt. A. I. Busev and Li Gyn	217	191
Determination of Palladium with β-Hydroxy-α-Naphthoic Aldehyde. A. S. Pesis and Z. A. Bitovt.	227	200
A Method for the Determination of Absolute Amounts of Ionium. K. B. Zaborenko and N. V. Filippova.	231	203
Determination of Free Boron in Boron Carbide and Boron Nitride and in Alloys Based on Them. E. E. Kotlyar and T. N. Nazarchuk	235	207

CONTENTS (continued)

	PAGE	RUSS. PAGE
Determination of Sulfide, Hydrosulfide, and Hydrogen Sulfide in Each Other's Presence in Pure Aqueous Solutions. K. P. Mishchenko, T. A. Tumanova, and I. E. Flis.	241	211
Identification of Dithizone and Its Ortho- and Para-Methyl Derivatives. I. B. Suprunovich.	249	218
Analysis of Fluoroorganic Compounds. The Use of Pyrohydrolysis for the Simultaneous Microdetermination of Fluorine, Carbon, and Hydrogen. N. É. Gel'man, M. O. Korshun, and K. I. Novozhilova.	253	222
Refractometric Determination of Tertiary Butanol in Complex Mixtures with Water and the Secondary and Primary Alcohols. B. V. Ioffe and A. I. Borisov.	259	227
Polarographic Determination of Glyoxilic Acid. V. D. Bezuglyi, V. N. Dmitrieva, T. S. Tarasyuk, V. P. Polyakov, and N. A. Izmailov.	263	231
Photometric Determination of Cyclohexanone Oxime in the Presence of Caprolactam. A. P. Terent'ev and M. Kosin'skii.	267	234
Brief Communications		
The Determination of Tritium. G. N. Trusov and N. A. Aladzhalova.	271	238
Detection of Gallium in Materials from Aluminum Production. V. K. Kuznetsova and N. A. Tananaeva.	273	240
Separation of Titanium from Tungsten by Ion Exchange Chromatography. D. I. Ryabchikov and V. E. Bukhtiarov.	275	242
Determination of Methylol Groups in Phenolic Resins. B. P. Ershov and A. S. Mosina.	277	243
The Effect of Paraldehyde on the Photometric Determination of Crotonaldehyde. V. S. Ivanov and V. F. Tsvetkov.	281	245
The Photometric Determination of Barbituric and 2-Thiobarbituric Acids. N. S. Drozdov and V. P. Krylov.	285	248
Letters to the Editor		
A Letter to the Editor of Zhurnal Analiticheskoi Khimii. V. I. Kuznetsov.	287	250
Chronicle		
Conference on Phase (material) Analysis of Non-Ferrous Metal Ores, Their Enrichment Products, and Products of Their Metallurgical Treatment.	291	253
Obituary		
Sergei Kuz'mich Chirkov.	293	254
New Books		
Publications of the Academy of Sciences of the USSR Which are to be Published in 1960.	295	255
International Union of Pure and Applied Chemistry Analytical Chemistry Division.	299	back cover

JOURNAL OF ANALYTICAL CHEMISTRY OF THE USSR

Volume 15, Number 3 May-June, 1960

CONTENTS

	PAGE	RUSS. PAGE
Determination of Stability Constants During Stepwise Complex Formation. N. P. Komar'	301	260
The Relation Between the Radiation Intensity and Concentration of 18 Elements in the Flame-Photometric Method of Analysis. N. S. Poluéktov, R. A. Vitkun, and L. A. Ovchar	305	264
A Study of the Precipitation of the Alkali Metals by Certain Triheteroacids. V. Kourzhin and A. K. Lavrukhina	313	272
Polarographic Determination of Calcium in Lepidolites and Muscovites. S. I. Sinyakova and Ch'en Yu-wei	319	277
A Radioactivation Method for the Determination of Beryllium in Mineral Raw Materials and in Hydrometallurgical Products. Kh. B. Mezhiborskaya	323	281
Photometric Determination of Yttrium with Stilbazo. L. S. Serdyuk and G. P. Fedorova	329	287
Studies in the Analytical Chemistry of Thallium. Communication 4. Diantipyrylpropylmethane as a Reagent for the Quantitative Determination of Thallium. A. I. Busev and V. G. Tiptsova	333	291
A New Reagent for Lead. A. M. Lukin and G. S. Petrova	337	295
Photometric Determination of Small Amounts of Thorium with Arsenazo. V. I. Kuznetsov and I. V. Nikol'skaya	341	299
A Sensitive and Selective Photometric Method of Determining Titanium by Means of Disulfophenylfluorone. V. A. Nazarenko and E. A. Biryuk	349	306
Photometric Determination of Microamounts of Uranium by Means of Arsenazo III. V. F. Luk'yanov, S. B. Savvin, and I. V. Nikol'skaya	353	311
Spectrographic Determination of Uranium by the Method of Isotopic Additions. N. P. Ivanov	357	315
The Use of Sodium Tungstate for the Titrimetric Determination of Iron and Titanium. L. I. Veselago	365	321
Determination of Certain Microimpurities in High-Purity Selenium. Communication 3. O. E. Zvyagintsev and V. I. Shamaev	369	325
Radioactivation Analysis of Semiconducting Silicon by Means of a Multi-Channel γ-Spectrometer. I. E. Makasheva, I. A. Maslov, and A. P. Obukhov	375	329
Analysis of Certain Alloys Based on Zirconium. S. V. Elinson, L. I. Pobedina, and N. A. Mirzoyan	381	334
Potentiometric Microtitration of Halogens in Organic Compounds after Their Mineralization. V. A. Klimova and M. D. Vitalina	387	339
Analysis of Fluoroorganic Compounds. Simultaneous Microdetermination of Fluorine, Carbon, and Hydrogen. N. É. Gel'man, M. O. Korshun, and K. I. Novozhilova	391	342
Determination of Phenolic Hydroxyls in Technical Lignins by a Potentiometric Method. M. I. Chudakov and G. D. Georgievskaya	397	347
A Method for Determining Benzenecarboxylic Acids. N. V. Zhdanova and A. A. Mikhnovskaya	403	353
Determination of Small Amounts of Thiourea in Copper Electrolytes Using a Rotating Platinum Anode. V. I. Ginzburg	405	355

CONTENTS (continued)

	PAGE	RUSS. PAGE
Brief Communications		
Estimation of Impurities in Reagents during the Determination of Traces by Photometric Methods. A. B. Blank	409	359
A Spectrographic Method for the Determination of Lithium and Beryllium during Prospecting for their Deposits. O. F. Chesnokov	413	362
Chromatographic Separation of Hafnium from Zirconium and the Determination of Hafnium by the Isotopic Dilution Method. G. M. Kolosova, Cheng Yüan-p'an, and M. M. Senyavin	415	364
Determination of High Concentrations of Ozone. N. M. Morozov	419	367
Potentiometric Determination of Sulfate Ions. E. I. Vail', V. A. Kremer, and A. P. Mirnaya	421	369
A Simple Method for the Determination of the Radioactivity of Compounds Labelled with C^{14}. V. I. Maimind, M. I. Lerman, and L. A. Neiman	423	371
The Reproducibility of the Results Obtained during the Quantitative Determination of Amino Acids by Partition Paper Chromatography. Yu. B. Filippovich	427	374
Separate Determination of Cyclohexanone and Cyclohexanone Oxime in Aqueous Solutions and in Air. A. S. Maslennikov	429	376
Reviews and Bibliography		
N. I. Tarasevich, A Textbook on the Practice of Gravimetric Analysis. P. Voskresenskii	433	378
N. A. Izmailov, The Electrochemistry of Solutions. A. P. Kreshkov	437	380
Current Events		
Questions on Analytical Chemistry at the XVII International Congress on Pure and Applied Chemistry. I. S. Skiyarenko	439	382
Conference on Analysis of Rare and Semiconducting Elements (December 7-11, 1959, Moscow). Z. I. Podgaiskaya	441	383
Competitions for Prizes Awarded by the Academy of Sciences USSR	443	cover
Conference on Organic Analysis	445	cover

JOURNAL OF ANALYTICAL CHEMISTRY OF THE USSR

Volume 15, Number 4 July-August, 1960

CONTENTS

	PAGE	RUSS. PAGE
Derivative Polarography on Solid Rotating Electrodes in Molten Salts. I. D. Panchenko	447	388
Some Nitrophenylosazones and Nitrophenylhydrazones as Indicators at High pH Values. N. V. Chugreeva	451	391
Microanalysis, The Chemical Analysis of Tomorrow. C. J. Van Nieuwenburg	455	394
Electron Exchanging Insoluble Polymers. E. B. Trostyanskaya and A. S. Tevlina	461	402
Partition Chromatography of Aromatic Hydrocarbons on Rubber-Like Polymers. G. L. Starobinets and E. V. Pavorkov	465	405
The Relation Between R_F Values and the Composition of Isopropanol–Hydrochloric Acid (1 : 1) Mixtures Used as Eluant. T. Oncescu and S. Zwiebel	469	409
Reasons for the Enhanced Precision of Spectrographic Analysis on Using an Impulse Excitation Source. V. V. Korolev and E. E. Vainshtein	473	413
New Complexons. Communication 4. Synthesis and Study of Complexons of the Triazine Series. R. P. Lastovskii, I. D. Kolpakova, and N. M. Dyatlova	479	419
Polarographic Determination of the Alkali Metals in Aqueous and Aqueous-Alcoholic Media in the Absence of a Supporting Electrolyte. G. M. Panchenko, E. M. Kuznetsova, and N. V. Akshinskaya	485	424
Flame Photometric Determination of Small Amounts of Rubidium in Silicates. E. A. Fabrikova	489	427
Determination of Small Amounts of Silver in the Developed Photographic Image. N. N. Shishkina	495	431
The Mutual Effect of Elements on Radiation Intensity in the Flame. Communication 2. Compounds Which are Formed During the Extinction of Calcium and Strontium Radiation by Aluminum, Zirconium, and Uranium Salts. N. S. Poluéktov and S. B. Popova	501	437
Photometric Determination of Cerium by Means of O-Tolidine. N. Iordanova and Khr. Daiev	507	443
Determination of Small (10^{-2}-10^{-4}%) Amounts of Thorium in Rocks by Means of Arsenazo II. S. B. Savvin, M P. Volynets, Yu. A. Balashov, and V. V. Bagreev	511	446
The Analytical Chemistry of Thorium. Communication 2. Complexonometric Determination of Thorium in Monazite Concentrates After its Isolation on KU-2 Cation Exchange Resin. Yu. A. Chernikhov, V. F. Luk'yanov, and A. B. Kozlova	517	452
Compounds of Quinquevalent Molybdenum with 8-Hydroxyquinoline and Their Use in Analytical Chemistry. A. I. Busev and Chang Fan	521	455
Chemicospectrographic Quantitative Determination of Small Amounts of Molybdenum and Tungsten in Igneous Rocks. L. I. Pavlenko	531	463
Photometric Determination of Palladium in Products From Nickel Production. S. E. Kreimer, L. P. Butylkin, and A. V. Stogova	535	467
Spectrophotometric Study of the Reaction Between Trivalent Iron Ions and Dimethylglyoxime. Yu. V. Morachevskii, L. I. Lebedeva, and Z. G. Golubtsova	541	472

(continued)

CONTENTS (continued)

	PAGE	RUSS. PAGE
A Spectrographic Method for the Determination of Impurities in Iridium and Rhodium. A. A. Kuranov, V. D. Ponomareva, and N. I. Chentsova	545	476
Determination of Microgram Amounts of Boron in Complex Alloys. R. B. Golubtsova	551	481
Conductometric Microdetermination of Carbon and Hydrogen in Organic Compounds. N. É. Gel'man and Wang Wen-Yun	557	487
Analysis of Multicomponent Mixtures by Means of Infrared Absorption Spectra. Communication 2. Determination of Chlorocumene, Tertiary Butylchlorobenzene, and Chlorodiphenylmethane Isomers. Yu. Ya. Mikhailenko, N. N. Lebedev, I. K. Kolchin, and E. G. Kutyrina	565	495
A Spectrographic Method for Controling the Completeness of the Extraction of Certain Inorganic Salts. M. G. Odintsov	571	500
Photometric Determination of Strontium. A. S. Karnaukhov, M. Mizera, and R. Palaush	573	502
Separation of Titanium from Manganese by Ion Exchange Chromatography. I. K. Tsitovich	575	503
Organic Reagents for Osmium. G. Baiulescu, C. Lazar, and C. Cristescu	579	505
Reduction of Quadrivalent Selenium with L-Ascorbic Acid. A. Kh. Batalin	583	507
A Spectrographic Method for the Determination of Phosphorus in Beryllium Oxide. I. A. Berezin and K. V. Aleksandrovich	585	509
Rapid Detection of Fluorine in Organic Fluorine-Containing Materials by Nonwettability of Glass. L. M. Dubnikov and O. V. Chebotarev	587	511
Quantitative Determination of Condensed Aromatic Hydrocarbons in Kerosene-Gas Oil Fractions from Dolinskaya and Bitovskaya Petroleums by their Absorption Spectra in the Near Ultraviolet. A. P. Lizogub and V. T. Sklyar	593	517

JOURNAL OF ANALYTICAL CHEMISTRY OF THE USSR

Volume 15, Number 5 September-October, 1960

CONTENTS

	PAGE	RUSS. PAGE
Butylrhodamine – A New Reagent for Photometric Determination, Extraction, Precipitation, and Coprecipitation of Elements. V. I. Kuznetsov and L. I. Bol'shakova	599	523
A Study of the Solubility of Zirconium, Thorium, and Uranium Phenylarsonates. V. A. Mikhailov	605	528
The Reducing Properties of Mercury. E. F. Speranskaya and M. T. Kozlovskii	611	534
The Use of Stationary Mercury Electrodes in Oscillographic Polarography. Ya. P. Gokhshtein	619	541
The Use of A "Sounding" Arc for Following the Passage of Material Into DC Arc Plasma. É. E. Vainshtein, Yu. I. Belyaev, and M. M. Farafonov	629	550
Determination of Potassium Present as an Impurity in Rubidium Chloride by a Flame Photometric Method. B. D. Stepin and V. E. Plyushchev	635	556
Gravimetric Determination of Small Amounts of Beryllium in Ores and in Products Obtained During Their Treatment. L. M. Moiseeva, N. M. Kuznetsova, and I. I. Pal'shina	641	561
Separation of Strontium and Calcium by Means of Sodium Ethylenediaminetetracetate (EDTA-Na). Determination of Strontium in Apatites. L. I. Afanas'eva	645	564
Complexonometric Determination of Aluminum with an Amperometric Indication of the Titration End Point. V. M. Babenyshev and O. M. Kuznetsova	649	568
Research in the Analytical Chemistry of Thallium. Communication 5. A Study of Complexonometric Indicators for Trivalent Thallium. A. I. Busev and V. G. Tiptsova	655	573
Spectrophotometric Determination of Erbium and Holmium in Solution. I. I. Antipova-Karataeva and Yu. I. Kutsenko	665	581
Photometric Determination of Titanium in the Form of a Pyridine-Salicylate Complex. A. K. Babko and A. I. Volkova	671	587
Extraction-Photometric Determination of Traces of Lead in High-Purity Reagents. A. M. Bulgakova and A. M. Volkova	675	591
Complexonometric Determination of Bismuth and Lead in Bismuth-Lead Alloys. V. F. Luk'yanov and L. I. Sedina	679	595
Complexonometric Determination of Quadrivalent Plutonium Using Arsenazo as Indicator. P. N. Palei and Chang Wen-ts'ing	683	598

CONTENTS (continued)

	PAGE	RUSS. PAGE
Polarographic Determination of Tungsten. G. S. Deshmukh and J. P. Srivastava	687	601
An Extraction-Photometric Determination of Traces of Iron by Means of 1-Nitroso-2-Naphthol. A. B. Blank and A. M. Bulgakova	693	605
Spectrophotometric Determination of Traces of Nickel in Pure Indium and Aluminum. V. M. Peshkova, V. M. Bochkova, and L. I. Lazareva	699	610
Determination of Microcontents of Selenium in Ores and Rocks. A. A. Sakharov	703	614
Determination of Fluorine in Metallic Zirconium by Means of a Discharge in a Hollow Cathode. Yu. I. Korovin	707	618
Chemicospectrographic Determination of Impurities in Lead. A. G. Karabash, L. S. Bondarenko, G. G. Morozova, and Sh. I. Peizulaev	713	623
Analysis of Fluoroorganic Compounds. Simultaneous Microdetermination of Fluorine, Carbon, and Hydrogen in Low-Boiling and Gaseous Compounds. N. É. Gel'man, M. O. Korshun, and K. I. Novozhilova	719	628
Determination of Phenyl Radicals in Silicoorganic Compounds. A. P. Kreshkov, V. T. Shemyatenkova, S. V. Syavtsillo, and N. A. Palamarchuk	727	635
Separation of the Lower Aliphatic Aldehydes and Ketones by Paper Chromatography, and Their Quantitative Determination. G. E. Zaikov	731	639
BRIEF COMMUNICATIONS		
The Mass-Spectrometric Analysis of the Isotopic Composition of Elemental Boron. Yu. A. Zonov	735	643
Titrimetric Determination of Nitrates in Water. D. Ceausescu	739	646

JOURNAL OF ANALYTICAL CHEMISTRY OF THE USSR

Volume 15, Number 6 November-December, 1960

CONTENTS

	PAGE	RUSS. PAGE
The Use of the Halochromic Effect in Quantitative Chemical Analysis. A. I. Cherkesov	743	651
Masking of Cations by Means of Unithiol During Complexonometric Titrations. Yu. V. Morachevskii and L. A. Vol'f	749	656
Some Azoxy Compounds As Reagents for Cations. V. M. Dziomko and K. A. Dunaevskaya	753	661
The Reducing Properties of Ethylenediaminetetracetic Acid. P. N. Palei and N. I. Udal'tsova	761	668
A New Redox Indicator for Titration in Alkaline Media. The Ferricyanide Method for the Determination of Vanadium. N. S. Frumina and I. S. Mustafin	765	671
Titration of Weak Bases in Acetic Acid and in Its Mixtures with Acetic Anhydride by Means of an Antimony Electrode. A. M. Shkodin and L. I. Karkuzaki	771	676
The Properties of Ion Exchange Membranes. E. B. Trostyanskaya and A. S. Tevlina	777	681
An Experiment in the Use of a Flame Generator for the Spectrographic Analysis of Silicates. V. V. Korolev and É. E. Vainshtein	783	686
The Use of Thiosemicarbazide and Its Phenyl Derivatives in Analytical Chemistry. Spot and Nondestructive Tests for Copper. V. N. Podchainova and V. Ya. Kazakov	791	692
Separation and Determination of Gallium by Means of Diantipyrylpropylmethane. A. I. Busev and V. G. Tiptsova	797	698
Determination of the Indium Content of Sphalerites by Radioactivation Analysis. A. A. Abdulaev, E. M. Lobanov, A. P. Novikov, M. M. Romanov, and A. A. Khaidarov	801	701
The Use of Thermogravimetry in Analytical Chemistry. Communication 2. A Thermogravimetric Study of Plutonium Compounds. I. S. Sklyarenko and T. M. Chubukova	807	706
Quantitative Spectrographic Determination of Impurities in the Rare Earths. Yu. I. Belyaev and L. A. Krivonos	813	711
A Chemicospectrographic Method for the Determination of Small Amounts of Molybdenum and Tungsten in the Presence of Large Amounts of Iron. L. I. Pavlenko	819	716

CONTENTS (continued)

	PAGE	RUSS. PAGE
The Use of Cinnamic Acid in Analytical Chemistry. Communication 1. Separation of Iron, Aluminum, and Chromium from Manganese, Nickel, Cobalt and Zinc. É. A. Ostroumov and I. I. Volkov	823	719
A Method for the Indirect Polarographic Determination of Sulfate, and Its Use in Water Analysis. O. A. Ohlweiler	827	723
Microdetermination of Carbonyl Groups by an Oximation Method. V. A. Klimova and K. S. Zabrodina	831	726
Quantitative Determination of Monosubstituted 1-, 3-, 4- Oxadiazoles by Potentiometric Titration with Sodium Nitrite. A. P. Grekov and O. P. Shvaika	837	731
Determination of Sugars by Direct Titration With an Alkaline Solution of The Copper Complex of Trihydroxyglutaric Acid. A. V. Ablov and D. G. Batyr	841	734
Quantitative Determination of Impurities in Adiponitrile. A. A. Kalugin, E. M. Perepletchikova, E. N. Zil'berman, Yu. V. Vodzinskii, and A. E. Kulikova	847	739
BRIEF COMMUNICATIONS		
Coprecipitation of Tungsten with Ferric Hydroxide. A. I. Novikov	851	742
Detection of Some Divalent Cations By Means of β-Hydroxynaphthaldehyde. S. I. Gusev, V. I. Kumov, and Z. A. Bitovt	855	746
Microdetermination of Copper in Organic Compounds by Combustion in Oxygen. A. P. Terent'ev, S. I. Obtemperanskaya, and V. N. Likhosherstova	857	748
Spectrophotometric Titration of Erbium with Sodium Ethylenediaminetetracetate (EDTA-Na) in the Presence of Pyridyl-(2-Azo-4)-Resorcinol. I. P. Efimov and V. M. Ivanov	859	750
A New Titrimetric Method of Determining Rhenium in Alloys. D. I. Ryabchikov, V. A. Zarinskii, and I. I. Nazarenko	860	752
Microcrystalloscopic Detection of Sulfur-Containing Anions. V. G. Sil'nichenko	863	755
Author Index, Volume 15, 1960	869	
Tables of Contents, Volume 15, 1960	872	

SIGNIFICANCE OF ABBREVIATIONS MOST FREQUENTLY ENCOUNTERED IN SOVIET PERIODICALS

FIAN	Phys. Inst. Acad. Sci. USSR.
GDI	Water Power Inst.
GITI	State Sci.-Tech. Press
GITTL	State Tech. and Theor. Lit. Press
GONTI	State United Sci.-Tech. Press
Gosenergoizdat	State Power Press
Goskhimizdat	State Chem. Press
GOST	All-Union State Standard
GTTI	State Tech. and Theor. Lit. Press
IL	Foreign Lit. Press
ISN (Izd. Sov. Nauk)	Soviet Science Press
Izd. AN SSSR	Acad. Sci. USSR Press
Izd. MGU	Moscow State Univ. Press
LEIIZhT	Leningrad Power Inst. of Railroad Engineering
LET	Leningrad Elec. Engr. School
LETI	Leningrad Electrotechnical Inst.
LETIIZhT	Leningrad Electrical Engineering Research Inst. of Railroad Engr.
Mashgiz	State Sci.-Tech. Press for Machine Construction Lit.
MEP	Ministry of Electrical Industry
MES	Ministry of Electrical Power Plants
MESEP	Ministry of Electrical Power Plants and the Electrical Industry
MGU	Moscow State Univ.
MKhTI	Moscow Inst. Chem. Tech.
MOPI	Moscow Regional Pedagogical Inst.
MSP	Ministry of Industrial Construction
NII ZVUKSZAPIOI	Scientific Research Inst. of Sound Recording
NIKFI	Sci. Inst. of Modern Motion Picture Photography
ONTI	United Sci.-Tech. Press
OTI	Division of Technical Information
OTN	Div. Tech. Sci.
Stroiizdat	Construction Press
TOE	Association of Power Engineers
TsKTI	Central Research Inst. for Boilers and Turbines
TsNIEL	Central Scientific Research Elec. Engr. Lab.
TsNIEL-MES	Central Scientific Research Elec. Engr. Lab.–Ministry of Electric Power Plants
TsVTI	Central Office of Economic Information
UF	Ural Branch
VIESKh	All-Union Inst. of Rural Elec. Power Stations
VNIIM	All-Union Scientific Research Inst. of Metrology
VNIIZhDT	All-Union Scientific Research Inst. of Railroad Engineering
VTI	All-Union Thermotech. Inst.
VZEI	All-Union Power Correspondence Inst.

Note: Abbreviations not on this list and not explained in the translation have been transliterated, no further information about their significance being available to us. – Publisher.